FILE NOTATIONS

Entered in NID File ✓
Entered On S R Sheet ✓
Location Map Pinned ✓
Card Indexed ✓
I W R for State or Fee Land

Checked by Chief ✓
Copy NID to Field Office ✓
Approval Letter ✓
Disapproval Letter

COMPLETION DATA:
Date Well Completed 9-21-57
OW WW TA
GW OS PA X

Location Inspected
Bond released
State of Fee Land

LOGS FILED

Driller's Log 11-13-57
Electric Logs (No.) 3
E I E-I 2 GR GR-N 2 Micro 2
Lat MI-L Sonic Other

Form 9-331 b
(April 1952)

Budget Bureau No. 42-R359.4.
Approval expires 12-31-60.

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee Tribal Lands

Lease No. 14-20-603-211

19 X

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	X	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

July 11, 1957

Shadscale
Well No. 1 is located 660 ft. from {N/S} line and 660 ft. from {E/W} line of sec. 19

SE 19 (¼ Sec. and Sec. No.) | 41S (Twp.) | 26E (Range) | SLBM (Meridian)

Wildcat (Field) | San Juan (County or Subdivision) | Utah (State or Territory)

The elevation ~~of the derrick floor above sea level~~ is 5130 ft. (Approx. ground)

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

1. Drill 11" hole to 1000'±.
2. Cement 8-5/8" casing at 1000'± with 300 sacks construction cement.
3. Drill 7-7/8" hole to 6175'±.
4. If commercial production is obtained a supplementary completion notice will be issued, otherwise plug and abandon in accordance with USGS regulations.

Surface formation is Morrison

Note: Subject land was surveyed during the period 1884-1889 and was accepted in the Surveyor General's office on February 17, 1900. Reference is had to the official survey of Township 41 South, Range 26 East, Salt Lake Base and Meridian.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Shell Oil Company

Address 101 South Behrend

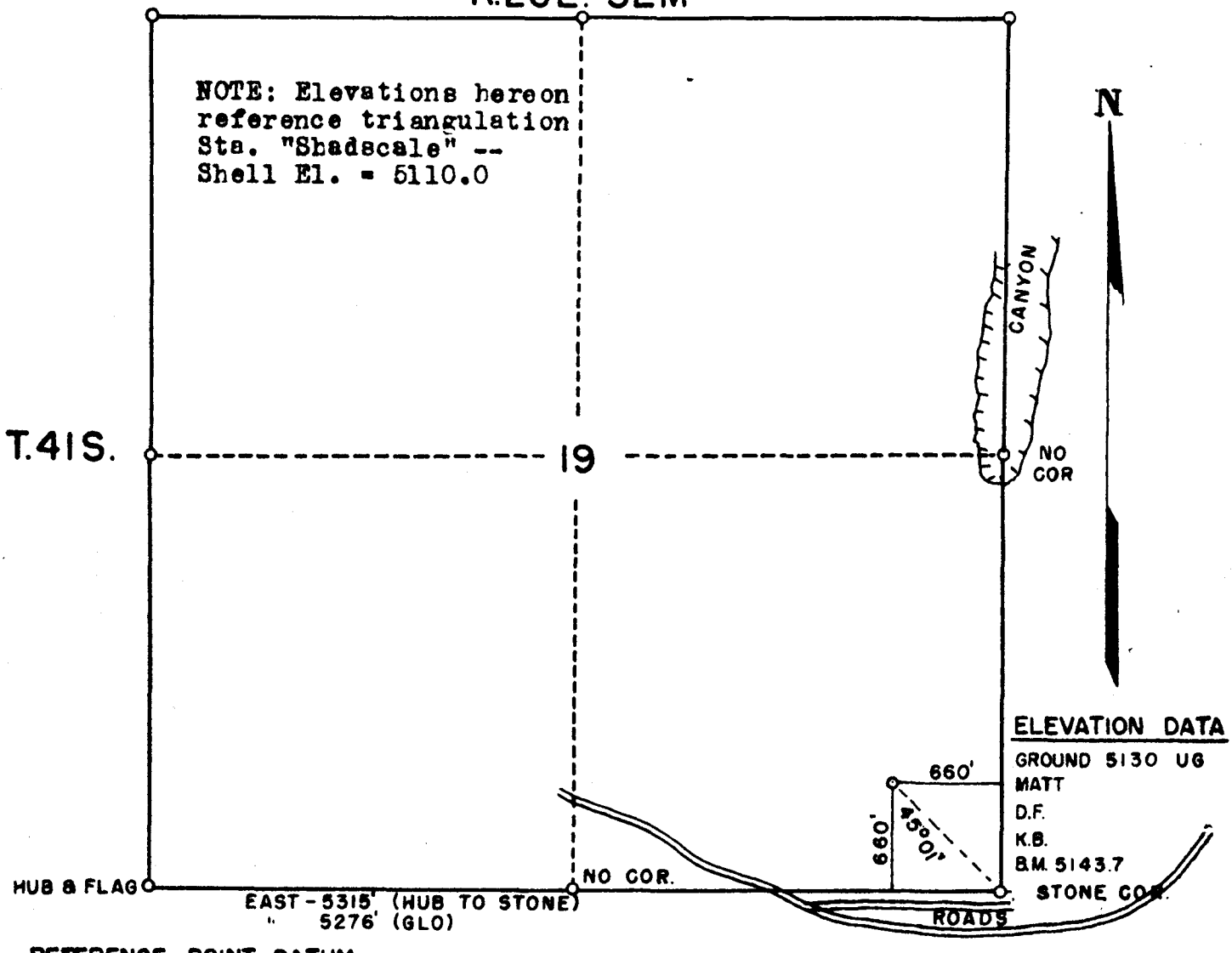
Farmington, New Mexico

By B W Shepard
B. W. Shepard
Title Exploitation Engineer

U. S. GOVERNMENT PRINTING OFFICE 16—8437b-8

R.26E. SLM

NOTE: Elevations hereon reference triangulation Sta. "Shadscale" -- Shell El. = 5110.0



REFERENCE POINT DATUM-
1"X2" STAKES SET AT 10' N.,S.,E., & W. OF LOC.

1"x2" stakes and 3' flag set at 150' N., S., E., & W. of Loc.
3/4" IP and 10' flag set at Loc. being 660' north and 660' west of the SE corner of Sec. 19, T. 41 S., R. 26 E., SLM.
1"x2" hub and 3' flag bears S. 45° W., 256' from Loc. for BM.

NOTE: From the stone at the SE corner of Sec. 19, the stone at the SE corner of Sec. 20 bears N. 89° 22' E., 5269'.

This is to certify that the above plat was prepared from field notes of an actual survey made by me on May 12, 1957 and that the same are true and correct to the best of my knowledge and belief.

John A. Kroeger

John A. Kroeger - Reg. L. S.
Utah Reg. No. 1648

Drawn By: JAK Checked By: JAK Date: 5/17/57	SHELL OIL COMPANY	Scale 1" = 1000'

LOCATION OF SHADSCALE — 1

SAN JUAN COUNTY, UTAH, SEC. 19, T. 41 S., R. 26 E., SLM

1901 Main Avenue
Durango, Colorado

July 12, 1957

Subject: Shadscale Area
Navajo No. 3 Lease
Contract No. 14-20-603-211

U. S. Geological Survey
P. O. Box 6721
Roswell, New Mexico

Attention Mr. John Anderson

Gentlemen:

We enclose in duplicate our Notice of Intention to Drill on the subject lease, which we have filed in quadruplicate with the U. S. Geological Survey in Farmington, New Mexico, and in duplicate with the State of Utah Oil and Gas Conservation Commission.

As you know, paragraph two of the rider to Oil and Gas Lease Contract No. 14-20-603-211 provides that prior to commencement of the drilling of a well, the Lessee shall have the lease surveyed by a registered land surveyor. However, this land, which was sold in 1953 as Tract No. 144 in Sale 41 dated March 24, 1953, was advertised as being surveyed. In accordance with discussions with your Mr. Knauf and Mr. Long of the Bureau of Indian Affairs, it was agreed that we should merely file a copy of our Notice of Intention to Drill with township plats attached showing that the land was surveyed. Mr. Knauf further stated that we should mention this fact on the Notice of Intention to Drill and accordingly, we have done so.

We would appreciate your returning the duplicate copy of this letter acknowledging receipt of the Notice of Intention to Drill, the surveyor's location plat and the township plat, in duplicate.

Very truly yours,

Original Signed by
F. W. Nantker

F. W. Nantker
District Land Agent

Enclosures

Receipt acknowledged:
U. S. Geological Survey

By_____

Date_____

Carbon copies to:

Mr. P. T. McGrath (with enclosures)
U. S. Geological Survey
Farmington, New Mexico

State of Utah (with enclosures)
Oil and Gas Conservation Commission
Salt Lake City, Utah

Mr. Marvin D. Long (with enclosures)
Navajo Indian Agency
Branch of Realty
Window Rock, Arizona

July 15, 1957

Shell Oil Company
101 South Behrend
Farmington, New Mexico

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Shadscale 1, which is to be located 660 feet from the south line and 660 feet from the east line of Section 19, Township 41 South, Range 26 East, SLBM, San Juan County, Utah.

Please be advised that insofar as this office is concerned, approval to drill said well is hereby granted.

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT
SECRETARY

CBF:en

cc: Phil McGrath/ Jerry Long
U.S.G.S. Farmington,
New Mexico

Form 9-331 b
(April 1952)

APPROVED
AUG 27 1957
Samuel L. Plummer
SAMUEL L. PLUMMER
ACTING DISTRICT ENGINEER

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R359.4.
Approval expires 12-31-60.

Indian Agency Navajo

Allottee Tribal Lands

Lease No. 14-20-603-211

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	X
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

August 20, 1957

Well No. Shadscale No. 1 is located 660 ft. from {N/S} line and 660 ft. from {E/W} line of sec. 19

SE 19 (¼ Sec. and Sec. No.) 41S (Twp.) 26E (Range) SLBM (Meridian)

Wildcat (Field) San Juan (County or Subdivision) Utah (State or Territory)

The elevation ~~of the derrick floor above sea level~~ is 5130 ft. (approx. ground)

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

(Spudded 8-16-57)

Ran and cemented 8-5/8", 28#, J-55 casing at 1003' with 300 sacks pozmix followed by 200 sacks treated cement. Good returns. Flanged up and waited on cement. Tested BOP and casing with 700 psi 15 min. OK.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Shell Oil Company

Address 101 South Behrend

Farmington, N. M.

By B. W. Shepard
B. W. Shepard

Title Exploration Engineer

U. S. GOVERNMENT PRINTING OFFICE 16—8437b-8

Form 9-331 b
(April 1952)

Budget Bureau No. 42-R359.4.
Approval expires 12-31-60.

APPROVED
19
AUG 27 1957
Samuel L. Summer
SAMUEL L. SUMMER
ACTING DISTRICT ENGINEER

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Navajo

Allottee Tribal Lands

Lease No. 14-20-603-211

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	X
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

August 20, 19 57

Well No. Shadscale No. 1 is located 660 ft. from {N/S} line and 660 ft. from {E/W} line of sec. 19

SE 19 (¼ Sec. and Sec. No.) | 41S (Twp.) | 26E (Range) | SLBM (Meridian)

Wildcat (Field) | San Juan (County or Subdivision) | Utah (State or Territory)

The elevation ~~of the derrick floor above sea level~~ is 5130 ft. (approx. ground)

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

(Spudded 8-16-57)

Ran and cemented 8-5/8", 28#, J-55 casing at 1003' with 300 sacks pozmix followed by 200 sacks treated cement. Good returns. Flanged up and waited on cement. Tested BOP and casing with 700 psi 15 min. OK.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Shell Oil Company

Address 101 South Behrend

Farmington, N. M.

By B. W. Shepard
B. W. Shepard
Title Exploitation Engineer

U. S. GOVERNMENT PRINTING OFFICE 16—8437b-8

PD 4A 2-50 PRINTED IN U. S. A.

SHELL OIL COMPANY

Shadscale WELL NO. 1

DRILLING REPORT
FOR PERIOD ENDING 9-19-57

Wildcat (FIELD)
San Juan, Utah (COUNTY)
19 (SECTION OR LEASE)
T41S, R26E (TOWNSHIP OR RANCHO)

DAY	DEPTHS FROM	DEPTHS TO	REMARKS
			Location: 660' N and 600' W of SE Corner, Section 19, T41S, R26E, SLBM, San Juan County, Utah Elevation: DF 5139
8-16 to 8-19	0	1003	Spudded 6:45 AM 8-16-57. Ran and cemented 8-5/8", 28#, J-55 National casing at 1003' with 300 sacks pozzo mix (2% gel) followed by 200 sacks construction cement treated with 2% calcium chloride. Good returns to surface. Flanged up and waited on cement, pressure tested casing and BOP with 700 psi, OK.
8-20 to 9-11	1003	5912	Drilled 4897'. Cored 12'.
9-12 to 9-13	5912	6016	Cored 104', Core #1 5900-5958, Recovered 58', Core #2 5958-6016 Recovered 58'.
9-14			DST #1 5946-6016. Cook testers. Ran test with 2 BT 6-5/8" packers at 5940 and 5946. Three inside pressure recorders AK-1 at 6005, AK-1 6010 and AK-1 at 6016. 1" surface bean, 3/4" subsurface bean, no water cushion. Used 30' (.219 bbls.) air cushion. Initial shut in 25 minutes, open 2 hours, Shut in 1 hour. Moderate blow steadily decreasing to slight at end of test, gas to surface 48 minutes, rate nil. Recovered 1440' (16.1 bbls.) including 440' (6.80 bbls.) heavily oil and gas cut mud, 180' (2.80 bbls.) gassy slightly muddy oil and 820' (6.48 bbls.) salt water, maximum salinity 101,000 ppm (t). ISIP 2250, IFP 50, FFP 540, FSIP 2150, HP 3000. (Gravity 40° API).
9-15 to 9-19	6016	6171	Drilled 66'. Cored 89'. Cut Core #3 6082-6141'. Recovered 59', Core #4 6141-6171, Recovered 30'. Ran Ind. Electrical Survey, Microlog and Gamma Ray Neutron Logs.

CONDITION AT BEGINNING OF PERIOD

HOLE SIZE	HOLE FROM	HOLE TO	CASING SIZE	DEPTH SET

DRILL PIPE SIZES

B. W. Shepard
SIGNED

PD 4A 2-50 PRINTED IN U. S. A.

SHELL OIL COMPANY

Shadscale WELL NO. 1

DRILLING REPORT
FOR PERIOD ENDING 9-21-57

Wildcat (FIELD)
San Juan County, Utah (COUNTY)
19 (SECTION OR LEASE)
T41S, R26E (TOWNSHIP OR RANCHO)

DAY	DEPTHS FROM	DEPTHS TO	REMARKS
			DST #2 Straddle Test 5952-5962. Cook testers. Ran testers with 2 BT packers. 2 pressure recorders Amerada at 5918 and Amerada at 6171, surface bean 1" and 5/8" subsurface bean. No water cushion, used 30' (.219 bbls.) air cushion. Initial shut in 26 minutes, open 2 hours, shut in 1 hour. Immediate weak blow, steady through out test increasing slightly in last 15 minutes. Gas to surface 67 minutes, rate nil. Recovered 120' (0.9 bbls.) including: 30' (.22 bbls.) highly gas cut and slightly oil cut mud est. 5% oil, 60' (.44 bbls.) highly oil and gas cut mud est 50% oil and 30' (.22 bbls.) oil 42° API at 70° F. ISIP 1900, IFP 25, FFP 75, FSIP 1800, HP 3050.
9-20 to 9-21	6171	TD	Waited on orders. With open end drill pipe placed following plugs: 35 sacks cement at 5900' 35 sacks cement at 5000' 35 sacks cement at 3050' 60 sacks cement at 1010' Found top plug at 840'. Installed marker and capped with a 10-sack cement plug. Released rig 2:30 A.M. 9-21-57, Officially abandoned.
			Checked BOP daily.
			Mud Summary Wt. 9.1 - 9.9 #/gal. Vis. 34-55 sec. WL 5 - 9.6 cc FC 1/32 in. pH 11.5-12

CONDITION AT BEGINNING OF PERIOD

HOLE SIZE	HOLE FROM	HOLE TO	CASING SIZE	DEPTH SET
11	0	1003	8 5/8"	1003'
7 7/8	1003	6171	-	-

DRILL PIPE SIZES 4 1/2

Contractor:
Great Western Drilling Co.
Drillers:
O. Freeman
S. W. Woods
J. W. Huet

B. W. Shepard
SIGNED

DITCH SAMPLES

Examined by _____ ____to ____
_____ ____to ____

Well Shadscale #1
Field or Area Shadscale Area

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NOT
1480	1500	100	Sandstone, as above.	
1500	1510	100	Sandstone, white, as above.	
1510	1520	50	Sandstone, as above.	
		50	Sandstone, red, calcareous, argillaceous.	
1520	1560	100	Sandstone, pale red-red purple, very fine, angular-sub round, well sorted, calcareous.	
1560	1600	100	Sandstone, orange, very fine, angular, well sorted.	
1600	1610	100	Sandstone, as above, argillaceous.	
1610	1690	100	Sandstone, as above, not argillaceous.	
1690	1810	100	Sandstone, as above, tripolitic.	
1810	1820	60	Sandstone, as above.	
		40	Siltstone, brown red.	
1820	1830	50	Sandstone, as above.	
		50	Siltstone, as above.	
1830	1840	60	Sandstone, as above.	
		40	Siltstone, as above.	
1840	1850	100	Sandstone, as above.	
1850	1900	100	Siltstone, red brown.	
1900	1940	100	Siltstone, orange.	
1940	1950	100	Siltstone, orange, calcareous.	
1950	2000	100	Siltstone, as above, very calcareous.	
2000	2200	100	Siltstone, very fine, Sandstone, brown orange, calcareous.	
2200	2280	100	Siltstone, brown, calcareous.	
2280	2290	60	Siltstone, as above.	
		40	Shale, red, calcareous.	
2290	2330	100	Siltstone, as above.	
2330	2420	100	Siltstone, as above, very calcareous.	
2420	2470	100	Siltstone, red, very calcareous.	
2470	2500	100	Shale, red, mottled green, calcareous, silty.	

DITCH SAMPLES

Examined by _____ ____to ____
_____ ____to ____

Well Shadscale #1
Field or Area Shadscale Area

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED Not
2500	2550	100	Shale, red,mottled green and ochre, calcareous, silty.	
2550	2560	70	Shale, as above.	
		30	Limestone, red,mottled green, III FA.	
2560	2600	100	Shale, red,mottled ochre, moderately silty.	
2600	2680	100	Shale, as above, very calcareous, very silty.	
2680	2700	100	Shale, red,mottled green, calcareous.	
2700	2720	100	Shale, as above, very calcareous.	
2720	2780	100	Limestone, pale red-purple, mottled green, III-IFA .	
2780	2790	50	Limestone, light green, IV FA.	
		50	Siltstone, tan.	
2790	2800		Skip.	
2800	2830	100	Sandstone, white, very fine, sub round, well sorted, calcareous.	
2830	2870	100	Sandstone, as above, becomes pink.	
2870	2920	100	Shale, red, calcareous, silty.	
2920	2930	100	Shale, orange, mottled green, calcareous, silty.	
2930	2950	100	Shale, as above, bentonitic.	
2950	3000	100	Shale, red and green, calcareous, silty.	
3000	3040	100	Shale, green, gray, and purple.	
3040	3050	100	Shale, brown.	
3050	3060	100	Sandstone, white, fine-medium, angular-sub round,fairly sorted.	
3060	3070	100	Shale, purple and green.	
3070	3100	80	Shale, as above.	
		20	Sand, loose, orange stained.	
3100	3120	70	Shale, as above.	
		30	Sand, as above.	
3120	3190	100	Sandstone, white, medium-course, round, sub round, well sorted, few orange stained grains.	
3190	3200	100	Sandstone, orange, very fine, well sorted.	
3200	3250	100	Sand, loose.	

DITCH SAMPLES

Examined by _____ ____to ____
_____ ____to ____

Well Shadscale #1
Field or Area Shadscale Area

FROM	TO	%	SHOWS UNDERLINED — SAMPLES LAGGED NOT
3250	3300	100	Shale, purple, red and green.
3300	3310		Skip.
3310	3380	100	Siltstone, orange, calcareous.
3380	3420	100	Sandstone, orange very fine, angular, fairly sorted, calcareous, argillaceous
3420	3430	50	Sandstone, as above.
		50	Shale, as above.
3430	3440	100	Siltstone, red, calcareous.
3440	3450	100	Sandstone, orange, very fine, angular, fairly sorted, calcareous, micaceous.
3450	3530	100	Shale, brown.
3530	3600	100	Shale, brown and green.
3600	3650	100	Shale, orange, silty.
3650	3800	100	Shale, as above, calcareous, with Limestone pebbles.
3800	3810	70	Shale, orange, very calcareous, very silty.
		30	Sandstone, white, fine, angular-sub round, well sorted, calcareous, micaceous.
3810	3850	100	Shale, as above.
3850	3860	100	Shale, red, subfissile, arenaceous, calcareous, with occasional Limestone inclusions.
3860	3900	100	Shale, red, subfissile, arenaceous, slightly calcareous, with anhydrite inclusions.
3900	3920	100	Shale, as above, with Limestone inclusions.
3920	3930	100	Shale, red brown, calcareous, arenaceous, soft.
3930	3940	100	Shale, red, calcareous, arenaceous, with Limestone and anhydrite, inclusions.
3940	3990		Skip.
3990	4010	100	Shale, red, arenaceous, calcareous, micaceous.
4010	4040	80	Shale, red, brown, calcareous, arenaceous, with occasional Limestone and anhydrite inclusions.
		20	Sandstone, light green, very fine, silty.
4040	4080	100	Shale, red, calcareous, arenaceous, micaceous, mottled green.

DITCH SAMPLES

Examined by _____ ___to ____
_____ ___to ____

Well Shadscale #1
Field or Area Shadscale Area

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NOT
4080	4090	50	Shale, red, as above.	
		50	Sandstone, light red, very fine, calcareous, argillaceous.	
4090	4150	100	Shale, red brown, slightly calcareous, arenaceous.	
4150	4240	100	Shale, variegated, red brown, green, purple, fissile, soft.	
4240	4330	25	Shale, as above.	
		75	Shale, brown, fissile, soft, slightly calcareous.	
4330	4400	100	Shale, brown, as above.	
4400	4450	100	Shale, brown, fissile, soft, slightly calcareous.	
4450	4460	50	Shale, as above.	
		50	Shale, light green, fissile, soft.	
4460	4480	100	Shale, brown, as above.	
4480	4500	100	Shale, variegated brown, red, red brown, light green, soft.	
4500	4520	100	Shale, variegated brown, red brown, light green, soft.	
4520	4560	75	Shale, as above.	
		25	Shale, brown, very micaceous.	
4560	4610	100	Shale, variegated as above.	
4610	4690	100	Shale, brown, fissile, soft, slightly calcareous.	
4690	4710	90	Shale, as above.	
		10	Limestone, light gray, IVFA.	
4710	4725	75	Shale, brown, fissile, calcareous, micaceous.	
		25	Limestone, light-dark gray, IVFA.	
4725	4800	100	Shale, as above. Samples poor.	
4800	4810	100	Shale, variegated, brown, red brown, purple, medium green.	
4810	4820	80	Shale, as above.	
		20	Limestone, medium gray, IVFA.	
4820	4825	100	Shale, variegated, red brown, gray green.	
4825	4835	75	Shale, red brown, fissile, soft.	
		25	Limestone, medium-light gray, IVFA.	
4835	4840	100	Shale, brown, soft, micaceous.	

DITCH SAMPLES

Examined by _____ ____to ____
_____ ____to ____

Well Shadscale #1
Field or Area Shadscale Area

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NOT
4840	4850	50	Shale, as above.	
		50	Shale, gray green, sub fissile, arenaceous.	
4850	4860	75	Shale, red brown, soft, micaceous.	
		25	Limestone, light gray-tan, IVFA.	
4860	4875	100	Shale, variegated, brown, red brown, gray green, micaceous.	
4875	4880	75	Shale, red brown, fissile, soft.	
		25	Limestone, light-medium gray, IVFA.	
4880	4885	50	Siltstone, brown, micaceous, calcareous.	
		50	Limestone, light gray, IVFA.	
4885	4890	100	Siltstone, as above.	
4890	4900	100	Shale, gray green, blocky, very calcareous, micaceous.	
4900	4910	75	Limestone, light gray-tan, IVFA.	Sample top Upper Hermosa 4900.
		25	Shale, gray green, micaceous.	(+239)
4910	4920	50	Limestone, as above.	
		50	Shale, as above.	
4920	4925	100	Shale, as above.	
4925	4935	75	Shale, as above.	
		25	Limestone, light-medium gray, IVFA.	
4935	4945	25	Shale, as above.	
		75	Limestone, light gray-tan, IVFA.	
4945	4950	50	Shale, medium gray, micaceous.	
		50	Limestone, as above.	
4950	4955	50	Shale, medium gray, very calcareous.	
		50	Limestone, light gray-tan, IVFA.	
4955	4965	100	Limestone, light gray-tan, IVFA.	
4965	4970	50	Limestone, as above.	
		50	Shale, variegated, gray green, red brown.	
4970	4975	75	Shale, gray green, fissile, micaceous.	
		25	Limestone, as above.	
4975	4985	100	Limestone, light-medium gray, IVFA, arenaceous in part.	
4985	4995	100	Limestone, light gray, IVFA, fossiliferous.	
4995	5000	50	Limestone, as above.	
		50	Shale, medium gray, calcareous, arenaceous.	

DITCH SAMPLES

Examined by _____ ____to ____
_____ ____to ____

Well Shadscale #1
Field or Area Shadscale Area

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NoT
5000	5005	75	Limestone, light gray-tan, IVFA.	
		25	Shale, as above.	
5005	5010	100	Limestone, light-medium gray, I-IIIvFA, oolitic	
5010	5015	75	Limestone, as above.	
		25	Shale, medium-dark gray, hard, fissile.	
5015	5025	100	Limestone, light gray, IVFA, arenaceous.	
5025	5040	100	Limestone, light gray, I-IIIvFA, very arenaceous.	
5040	5050	100	Limestone, light-medium gray, IVFA, arenaceous, cherty, argillaceous.	
5050	5055	100	Limestone, light gray, IVFA, silty.	
5055	5060	75	Limestone, as above, cherty.	
		25	Shale, gray green, fissile.	
5060	5065	25	Limestone, light gray, IVFA, arenaceous.	
		75	Sandstone, light green, very fine-fine, poor sorted, micaceous, argillaceous.	
5065	5070	100	Sandstone, as above.	
5070	5075	50	Limestone, light gray-tan, IVFA, argillaceous.	
		50	Shale, gray green, arenaceous, micaceous, calcareous.	
5075	5080	100	Limestone, light gray, IVFA, argillaceous, cherty.	
5080	5085	100	Limestone, light-medium gray, argillaceous, arenaceous, cherty, fossiliferous.	
5085	5090	50	Limestone, as above.	
		50	Shale, gray green, micaceous.	
5090	5095	100	Limestone, medium gray, to tan, IVFA, argillaceous.	
5095	5105	25	Shale, dark gray-black, carbonaceous.	
		75	Limestone, light-dark gray, I-IIIvFA, argillaceous in part, arenaceous.	
5105	5120	100	Limestone, light gray-tan, IVFA, very agrillaceous, arenaceous.	
5120	5125	100	Limestone, light gray, IVFA, arenaceous, cherty.	
5125	5155	100	Limestone, light-medium gray, I-IIIVFA, arenaceous.	
5155	5170	100	Limestone, white-light gray, IVFA.	
5170	5175	100	Shale, medium gray, blocky, calcareous.	

DITCH SAMPLES

Examined by _____ ____to ____
_____ ____to ____

Well Shadscale #1
Field or Area Shadscale Area

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NOT
5175	5190	50	Shale, as above.	
		50	Limestone, light gray-tan, IVFA.	
5190	5195	100	Limestone, light gray, I-IIIvFA.	
5195	5200	100	Shale, medium gray, calcareous.	
5200	5210	25	Shale, as above.	
		75	Limestone, white, IVFA.	
5210	5215	100	Limestone, as above.	
5215	5220	100	Shale, medium gray, calcareous, fissile.	
5220	5225	50	Shale, as above.	
		50	Limestone, white-light gray, I-IIIVFA.	
5225	5230	100	Limestone, white-light gray, IVFA.	
5230	5245	75	Shale, medium gray, calcareous.	
		25	Limestone, as above.	
5245	5250	100	Limestone, white, IVFA, fossiliferous.	
5250	5255	100	Limestone, white IVFA, fossiliferous.	
5255	5280	75	Limestone, as above.	
		25	Shale, medium gray, black, calcareous.	
5280	5295	100	Limestone, white-medium gray, I-IIIVFA, fossiliferous.	
5295	5300	100	Limestone, as above, in part IIA.	
5300	5310	100	Limestone, light gray-tan, I-IIIVFA.	
5310	5320	100	Limestone, white, IVFA.	
5320	5325	100	Limestone, light gray, IVFA.	
5325	5330	25	Shale, medium gray, calcareous.	
		75	Limestone, as above.	
5330	5350	100	Limestone, white-tan, IVFA, very cherty.	
5350	5355	100	Limestone, light gray-brown, IVFA, pyritic.	
5355	5365	100	Limestone, medium gray, IIIFA.	
5365	5370	90	Limestone, light-medium gray, III-IVFA.	
		10	Chert, milky, smokey.	
5370	5375	100	Limestone, as above, cherty.	

DITCH SAMPLES

Examined by _____ ____to ____
_____ ____to ____

Well Shadscale #1
Field or Area Shadscale Area

FROM	TO	%	SHOWS UNDERLINED — SAMPLES LAGGED NOT
5375	5380	100	Limestone, tan, IVFA.
5380	5385	100	Limestone, tan-IVF-FA, cherty.
5385	5390	75	Limestone, as above.
		25	Shale, medium gray.
5390	5395	75	Limestone, tan, IVFA-IIIVFA.
		25	Shale, as above, calcareous.
5395	5400	100	Limestone, medium gray, IIIVFA, argillaceous.
5400	5410	100	Limestone, light-dark gray, III-IVFA, argillaceous.
5410	5420	100	Limestone, light gray, IVFA.
5420	5425	75	Limestone, light gray, IVFA.
		25	Shale, medium gray, fissile.
5425	5435	50	Limestone, as above.
		50	Shale, as above.
5435	5445	100	Limestone, light gray, IIIFA, very arenaceous.
5445	5450	75	Limestone, as above.
		25	Shale, medium gray, calcareous.
5450	5455	50	Limestone, as above.
		50	Shale, medium gray, sub fissile.
5455	5465	50	Limestone, light gray, III-IVFA.
		50	Shale, as above.
5465	5475	100	Shale, medium-dark gray, fissile.
5475	5480	100	Shale, medium gray, blocky, very calcareous.
5480	5495	25	Limestone, tan-brown, IVFA.
		75	Shale, medium gray, fissile.
5495	5500	25	Limestone, tan, dark gray, IVFA.
		75	Shale, as above.
5500	5510	100	Shale, as above.
5510	5520	75	Shale, as above.
		25	Limestone, light-dark gray, I-IIIVFA.
5520	5525	100	Limestone, light-medium gray, IVFA.
5525	5530	100	Limestone, light gray, IVFA.

DITCH SAMPLES

Examined by _____ ____to ____
_____ ____to ____

Well Shadscale #1
Field or Area Shadscale Area

FROM	TO	%	SHOWS UNDERLINED SAMPLES LAGGED NOT
5530	5535	100	Limestone, as above in part IIA, soft.
5535	5550	100	Limestone, medium gray-tan, IVFA, minor cherty, fossiliferous.
5550	5575	100	Limestone, dark gray, IVFA, very argillaceous.
5575	5585		As above.
5585	5595	100	Limestone, light gray, IIIVFA, very arenaceous.
5595	5600	100	Limestone, light gray-tan, IVFA, minor cherty.
5600	5610	100	Limestone, light-medium gray, IVFA, cherty.
5610	5615	25 75	Shale, medium gray, blocky, very calcareous. Limestone, as above.
5615	5620	100	Limestone, tan, I-IIIVFA, cherty.
5620	5625	50 50	Shale, medium gray, blocky, calcareous, arenaceous. Limestone, as above.
5625	5630	25 75	Shale, as above. Limestone, light gray, IIIVFA, arenaceous.
5630	5635	100	Limestone, white-tan, IVFA, minor cherty.
5635	5645	100	Limestone, as above, IVF-MA in part IIA.
5645	5650	25 75	Shale, dark gray, calcareous, fissile. Limestone, as above.
5650	5660	100	Shale, medium gray, blocky, slightly calcareous.
5660	5665	75 25	Shale, as above. Limestone, tan-light gray, IVFA.
5665	5675	50 50	Shale, dark gray, blocky, slightly calcareous. Limestone, tan, IVFA.
5675	5680	75 25	Shale, as above. Limestone, light gray-tan, IVFA.
5680	5685	25 75	Shale, as above. Limestone, light-medium gray, IVFA.
5685	5695	100	Shale, medium gray, slightly calcareous, sub fissile.
5695	5700	100	Limestone, light gray-tan, IVFA.
5700	5720	100	Limestone, light gray, IIIVFA, arenaceous.

DITCH SAMPLES

Examined by _____ ____to ____
_____ ____to ____

Well Shadscale #1
Field or Area Shadscale Area

FROM	TO	%	SHOWS UNDERLINED SAMPLES LAGGED NOT
5720	5725	100	Limestone, light gray, III-IVFA, arenaceous in part.
5725	5735	100	Limestone, light gray, I-IIIVFA.
5735	5740	75	Limestone, light gray-tan, III-IVFA.
		25	Shale, dark gray, blocky, very calcareous.
5740	5750	100	Limestone, dark gray, III-IVFA, argillaceous.
5750	5755	100	Limestone, dark gray, IIIVF-IFA, argillaceous.
5755	5775	100	Limestone, light gray-tan, I-IIIVFA.
5775	5780	25	Shale, dark gray.
		75	Limestone, as above.
5780	5785	100	Limestone, light gray-tan, IVFA, cherty.
5785	5795	100	Limestone, as above.
5795	5800	100	As above, very cherty.
5800	5805	50	Shale, medium dark gray, slightly calcareous.
		50	Limestone, as above.
5805	5810	75	Shale, as above.
		25	Limestone, tan, I-IIIVFA.
5810	5815	50	Shale, as above.
		50	Limestone, as above.
5815	5820	100	Limestone, light gray-tan, IVFA.
5820	5830	50	Shale, medium-dark gray, calcareous.
		50	Limestone, as above, very cherty.
5830	5835	75	Shale, medium gray, calcareous, sub fissile.
		25	Limestone, light gray-tan, IVFA.
5835	5855	100	Shale, very dark gray, blocky, very calcareous.
5855	5865	100	Limestone, brown-tan, IVF-MA, fossiliferous. (forams)
5865	5870	100	Limestone, light gray, IIIFA, $+B_{tr}$, oolitic, arenaceous, fossiliferous (forams.)
5870	5875	100	Limestone, as above, IIIFA + B_2.
5875	5880	100	Limestone, as above, IIIF-MA + $5B_3$ + trace C_2 + IIA.

DITCH SAMPLES

Examined by _____ ____to _____
_____ ____to _____

Well Shadscale #1
Field or Area Shadscale Area

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NoT
5880	5885	100	Limestone, light gray, IVFA + IIA, cherty.	
5885	5890	25	Shale, medium gray, fissile, calcareous.	
		75	Limestone, as above.	
5890	5895	25	Shale, as above.	
		75	Limestone, light gray, tan, IVFA.	
5895	5900	100	Limestone, tan, IVFA.	

Ditch Samples Drilled between Core #2 and #3, from 6001' to 6082'

6001	6016	100	Shale, black, fissile, slightly calcareous.	
6016	6060	100	Shale, black, slightly calcareous, fissile.	
6060	6070	100	Limestone, light gray-medium gray, IIIVFA, very silty.	
6070	6075	100	Anhydrite, white, soft, very fine crystalline.	
6075	6082	100	Anhydrite, gray-white, sucrosic.	

PD 4-B 8-50

WEEK ENDING_____

CORE FROM_____ TO_____

CORES EXAMINED BY_____

SHELL OIL COMPANY

CORE RECORD

AREA OR FIELD Shadscale Area

COMPANY Shell Oil Company

LEASE AND WELL NO. Shadscale #1

NO.	FROM	TO	RECOV-ERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS OIL—GAS / CORE OR DITC
CORE #1	5900	5958'	Recovered 58'				See Descrip
	5900	5904	4'	Limestone, tan, IVF-LA, fossiliferous, with occasional anhydrite filled veins, some fossils.			
	5904	5905	1'	Limestone, dark gray-brown, I-IIIVFA, fossiliferous, (F_1)			
	5905	5906.8	1.8'	Limestone, tan, IVF-LA.			
	5906.8	5908	1.2'	Limestone, tan, IVFA +B_1 +C_{tr}, spotty pale yellow Fluorescence, pale yellow cut Fluorescence slightly bleeding oil.			
	5908	5909	1'	Limestone, tan, in part brown, IVF-MA, anhydrite, fossiliferous, (F_2)			
	5909	5911	2'	Limestone, brown, I-IIIVFA, anhydrite, fossiliferous, stylolitic.			
	5911	5915	4'	Limestone, brown, IVF-MA + IIIvFA, fossiliferous, (F_3), stylolitic.			
	5915	5919	4'	Limestone, brown, IVF-MA + IIIvFA, fossiliferous, (brachiopod)			
	5919	5920	1'	Limestone, light brown, IVF-LA, fossiliferous, pale yellow Fluorescence on vertical fracture, pale yellow cut Fluroescence.			
	5920	5923	3'	Limestone, as above.			
	5923	5925	2'	Limestone, tan, IVF-MA.			
	5925	5928	3'	Limestone, brown, I-IIIVFA, fossiliferous.			
	5928	5929	1'	Limestone, tan, IVF-MA.			
	5929	5931	2'	Limestone, dark gray, III-IVFA, argillaceous, crinoids (fossiliferous).			
	5931	5938	7'	Limestone, brown, IVFA.			

PD 4-B 8-50

WEEK ENDING_____

CORE FROM_____ TO_____

CORES EXAMINED BY_____

SHELL OIL COMPANY

CORE RECORD

AREA OR FIELD Shadscale #1

COMPANY Shell Oil Company

LEASE AND WELL NO. Shadscale

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS OIL—GAS CORE OR DITCH
	5938	5947	9'	Limestone, dark gray-brown, IVFA, argillaceous.			See Descript
	5947	5948	1'	Limestone, dark gray, IIIVFA, very argillaceous.			
	5948	5951	3'	Limestone, tan, IVF-MA.			
	5951	5953	2'	Shale, dark gray-black.			
	5953	5954	1'	Limestone, tan, IVFA.			
	5954	5954.7	1.7'	Limestone, tan, IVF-FA, fossiliferous, (F_1).			
	5954.7	5956	1.3'	Limestone, gray, IVFA + $B_{5-10'}$ + C_5, spotty-uniform Fluorescence, milky Cut Fluorescence, petroleum odor, bled oil and salt water.			
	5956	5957	1'	As above, + D_{tr}.			
	5957	5958	1'	Limestone, tan-gray, IVFA + B_1 + C_{tr}, spotty Fluorescence, milky Cut Fluorescence.			
CORE #2, 5958-6016', Recovered 58'.							
	5958	5959	1'	Limestone, light gray, IVFA + B_1 + C_5 + D_{tr}, fossiliferous, (forams F_1) 20% yellow Fluorescence, milky Cut Fluorescence.			
	5959	5961	2'	Limestone, as above, 90% yellow Fluorescence.			
	5961	5962.1	1.1'	Limestone, as above, IVFA + C_1, 20% yellow Fluorescence.			
	5962.1	5965	2.9'	Limestone, tan, IVF-MA, (Forams F_1), stylolitic.			
	5965	5970	5'	Limestone, tan-brown, I-IIIVFA, (F_1).			
	5970	5971.3	1.3'	Limestone, light gray, IVFA.			

PD 4-B 8-50

WEEK ENDING_____

CORE FROM_____ TO_____

CORES EXAMINED BY_____

SHELL OIL COMPANY

CORE RECORD

AREA OR FIELD Shadscale Area

COMPANY Shell Oil Company

LEASE AND WELL NO. Shadscale #1

NO.	FROM	TO	RECOV-ERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS OIL—GAS / CORE OR DITCH
	5971.3	5972.6	.9'	Limestone, light gray, IVFA + C_{tr-1}, 5-10% yellow Fluorescence, milky cut Fluorescence.			See Descript
	5972.6	5973.1	.5'	Limestone, as above, IVFA + C_{1-5}, 2 % yellow Fluorescence, milky cut Fluorescence.			
	5973.1	5977.6	4.5'	Dolomite, tan, IIIA + B_{1-3}, with occasional anhydrite inclusions.			
	5977.6	5980.	2.4'	Limestone, light gray, IVFA + B_{tr}, yellow Fluorescence on vertical fracture.			
	5980	5981	1'	Limestone, tan, I-IIIVFA + B_{1-5}, 5% yellow Fluroescence, milky cut Fluorescence.			
	5981	5983	2'	Limestone, as above, no Fluroescence.			
	5983	5985	2'	As above, Fluorescence on vertical fracture.			
	5985	5986	1'	Limestone, light gray, IVFA + B_{tr}.			
	5986	5987	1'	Limestone, light gray, IVFA, silty, Fluorescence on vertical fracture.			
	5987	5999	12'	Limestone, light gray, IIA-IVFA + B_{tr-2}, with occasional anhydrite inclusions.			
	5999	6000	1'	Dolomite, tan, IVFA-IIA.			
	6000	6001	1'	Limestone, brown, IVFA.			
				TOP PARADOX 6001'			

PD 4-B 8-50

WEEK ENDING_____

CORE FROM_____ TO_____

CORES EXAMINED BY_____

SHELL OIL COMPANY

CORE RECORD

AREA OR FIELD Shadscale Area

COMPANY Shell Oil Company

LEASE AND WELL NO. Shadscale #1

NO.	FROM	TO	RECOV-ERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS OIL— GAS / CORE OR DITCH
CORE #3 6082-6141', Recovered 59'.							See Descrip
	6082	6084	2'	Limestone, medium gray-brown, IVF-MA.			
	6084	6086	2'	Limestone, dark gray, IVFA, argillaceous, fossiliferous.			
	6086	6087	1'	Limestone, as above, very argillaceous, with black chert nodules pyritic. spotty Fluorescence on fracture in chert.			
	6087	6088	1'	Limestone, dark gray, IIIVFA, very argillaceous, slightly anhydrite.			
	6088	6090	2'	Limestone, brown, I-IIIVFA, very fossiliferous, (brachiopod.)			
	6090	6092	2'	Limestone, brown, I-IIIVFA, argillaceous.			
	6092	6093	1'	Dolomite, brown, I-IIIVF-MA, with bedded anhydrite stringers.			
	6093	6094	1'	Dolomite, light gray, IIIVFA.			
	6094	6095	1'	Dolomite, as above, interbedded with anhydrite.			
	6095	6096	1'	Dolomite, light gray, IIIVFA.			
	6096	6101	5'	Anhydrite, with stringers dolomite, as above.			
	6101	6102	1'	Dolomite, light gray, IIIVFA.			
	6102	6105	3'	Anhydrite, with stringers dolomite as above.			
	6105	6116.3	11.3'	Anhydrite, gray, massive (dolomite stringers at 10-11)			
	6116.3	6118	1.7'	Dolomite, medium gray, IIIVFA, bled salt water, slightly anhydritic.			
	6118	6119	1'	As above, slightly oil stained though 1" 2% Fluorescence.			

PD 4-B 8.50

WEEK ENDING_____

CORE FROM_____ TO_____

CORES EXAMINED BY_____

SHELL OIL COMPANY

CORE RECORD

AREA OR FIELD Shadscale Area

COMPANY Shell Oil Company

LEASE AND WELL NO. Shadscale #1

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS OIL—GAS CORE OR DITCH
	6119	6120	1'	Limestone, medium gray, I-III$\forall$FA.			See Descript
	6120	6121	1'	Limestone, dark gray, III$\forall$FA, very argillaceous, occasional shale (black) stringer.			
	6121	6122	1'	Limestone, brown, III$\forall$FA, some fossils replaced by chert, (Brachiopod)			
	6122	6129	7'	Limestone, as above, very fossiliferous, crinoids and brachiopods.			
	6129	6130	1'	Limestone, brown, I$\forall$FA.			
	6130	6134	4'	Limestone, brown, III-I$\forall$FA, fossiliferous.			
	6134	6137	3'	Limestone, brown, III$\forall$FA, fossiliferous, (brachiopod).			
	6137	6140	3'	Limestone, brown, III$\forall$FA, very argillaceous.			
	6140	6141	1'	Shale, medium-dark gray, very calcareous.			

PD 4-B 8-50

SHELL OIL COMPANY

WEEK ENDING

CORE FROM 6141 TO 6171

CORES EXAMINED BY

CORE RECORD

AREA OR FIELD Shadscale

COMPANY Shell Oil Company

LEASE AND WELL NO. Shadscale #1

NO.	FROM	TO	RECOV-ERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS OIL—GAS / CORE OR DITCH
4	6141	6171	30'				See Descripti
	6141	6145	4'	Shale, black, slightly calcareous.			
	6145	6146	1'	Dolomite, dark gray, III VFA, shaly.			
	6146	6148.5	2.5'	Shale, black, slightly calcareous.			
	6148.5	6154.3	6.8'	Shale, black.			
	6154.3	6156.6	2.3'	Shale, black, very calcareous.			
	6156.6	6159.8	3.2'	Limestone, brown, III VFA-FA.			
	6159.8	6160	.2'	Shale, black, bleeding oil on fractures.			
	6160	6161	1'	Limestone, brown, III VFA.			
	6161	6162.1	1.1'	Limestone, medium gray, III VFA, very shaly.			
	6162.1	6163	.9'	Dolomite, brown, III VFA-II A, good odor, bleeding oil and gas, no fluorescence.			
	6163	6164	1'	Limestone, brown, I VFA.			
	6164	6165	1'	Limestone, brown, I/III VFA.			
	6165	6166.5	1.5'	Limestone, brown, III VFA, good odor, uniform dull yellow fluorescence.			
	6166.5	6171	.4'	Anhydrite, gray, massive.			

SYMBOLS: C-CLAY OR SHALE (SAND 0-5%). 1-CLAY OR SHALE WITH SAND STREAKS (SAND 5-25%). 2-CLAY OR SHALE AND SAND (SAND 25-60%). 3-SAND WITH SHALE STREAKS (SAND 60-90%). S-SAND (90-100%).
NOTE: SHOW FLUID CONTENT AS IN STANDARD LEGEND.

Form 9-331 b
(April 1952)

	19		
			x

(SUBMIT IN TRIPLICATE)

Budget Bureau No. 42-R359.4.
Approval expires 12-31-60.

Indian Agency Navajo

Allottee Tribal Lands

Lease No. 14-20-603-211

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Noted
CFH
10-7-57

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	x
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

September 18, 1957

Well No. Shadscale #1 is located 660 ft. from {S} line and 660 ft. from {E} line of sec. 19

SE 19 (¼ Sec. and Sec. No.) 41S (Twp.) 26E (Range) SLBM (Meridian)

Wildcat (Field) San Juan (County or Subdivision) Utah (State or Territory)

The elevation of the derrick floor above sea level is 5139 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

DST #1 5946-6016 30 minute initial shut-in. Immediate strong blow, continuing throughout 2 hour flowing test. Rec. 1440' net rise gassy oil and salt water. ISIP 2250, IFP 50, FFP 540, FSIP 2150, HP 3000.

DST #2 (Straddle Test [illegible]') Initial shut-in 30 minutes. 2 hour flow period; 1/2 hour final shut-in. Very weak blow gas to surface, 1 hour 7 minute rate nil. Recovered 120' (0.5 bbls). Total fluid consisting of: 30' (.12 bbls) highly gas cut and slightly oil cut mud, estimate 5% oil; 60' (.24 bbls) highly oil and gas cut mud, estimate 90% oil; 30' (.12 bbls) oil. ISIP 1900, IFP 25, FFP 75, FSIP 1800, HP 3050.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Shell Oil Company

Address 101 South Behrend

Farmington, New Mexico

By B W Shepard
B. W. Shepard

Title Exploitation Engineer

U. S. GOVERNMENT PRINTING OFFICE 16—8437b-8

W

Form 9-331 b
(April 1952)

Budget Bureau No. 42-R359.4.
Approval expires 12-31-60.

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Navajo

Allottee Tribal Lands

Lease No. 14-20-603-831

Noted Catt 10-7-57

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	X		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

September 19, 1957

Shadscale
Well No. 1 is located 660 ft. from {S} line and 660 ft. from {E} line of sec. 19

SE 19 (¼ Sec. and Sec. No.) 41 S (Twp.) 26 E (Range) SLBM (Meridian)

Wildcat (Field) San Juan (County or Subdivision) Utah (State or Territory)

The elevation of the derrick floor above sea level is 5139 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Status: Total Depth - 6171'
Surface casing - 8 5/8" at 1003'
Hole size - 7 7/8" hole 1003 to total depth

Proposed Work:
1. Place plugs through open end drill pipe as follows:
   a. 5900' with 35 sacks cement (5800-5900)
   b. 5000' with 35 sacks cement (4900-5000)
   c. 3050' with 35 sacks cement (2950-3050)
   d. 1010' with 60 sacks cement (Shoe of surface casing)
2. Pool for top plug.
3. Place 10 sack cement plug at surface, install marker and abandon in accordance with USGS regulations.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company SHELL OIL COMPANY

Address 101 S Behrend

Farmington, New Mexico

By B W Shepard

Title B. W. Shepard
Exploitation Engineer

U. S. GOVERNMENT PRINTING OFFICE 16—8437b-8

Verbal approval to abandon — Mr Long, USGS to B. W. Shepard, 9-18-57.

W/

DITCH SAMPLES

Examined by _____ ____to _____
_____ ____to _____

Well Shadscale #1
Field or Area Shadscale Area

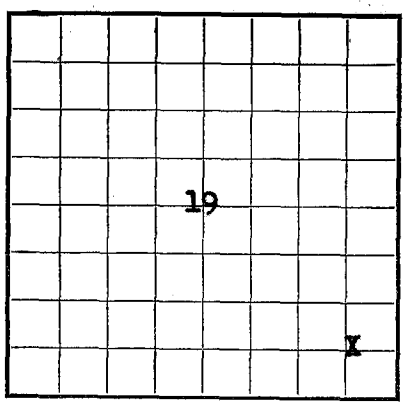
FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NOT
910	940	50	Shale, brown calcareous.	
		50	Sandstone, orange, very fine, angular-sub round, calcareous.	
940	950	30	Shale, green.	
		70	Sandstone, dark brown, very fine, angular, fair sorting calcareous, argillaceous.	
950	980	50	Shale, green.	
		50	Shale, brown, calcareous.	
980	1000	100	Sandstone, tan-light green, very fine, sub round-well round, well sorted, calcareous.	
1000	1050	100	Sandstone, brown red, very fine, angular-sub round, poorly sorted, calcareous, very argillaceous.	
1050	1120	100	Sandstone, orange, very fine-fine, angular-sub round, well sorted, calcareous.	
1120	1150	100	Sandstone, grading to Siltstone, orange, very fine, angular, fair sorting. calcareous, argillaceous.	
1150	1180	100	Sandstone, as above, very argillaceous.	
1180	1200	100	Sandstone, as above, bentonitic.	
1200	1220	100	Shale, orange red, calcareous, very silty, bentonitic.	
1220	1260	100	Shale, as above, not bentonitic.	
1260	1280	100	Siltstone, red orange, calcareous.	
1280	1290	100	Sandstone, white, very fine, sub angular-sub round, well sorted, calcareous.	
1290	1300	100	Siltstone, brown orange, calcareous.	
1300	1360	100	Sandstone, pale orange, very fine, angular-sub round, well sorted.	
1360	1370	40	Sandstone, orange brown, very fine, angular, pale poorly sorted, very argillaceous.	
		60	Sandstone, as above.	
1370	1430	30	Sandstone, orange brown, as above.	
		70	Sandstone, as above.	
1430	1470	100	Sandstone, pale orange, as above, calcareous.	
1470	1480	60	Sandstone, pale red, very fine, angular, well sorted, calcareous.	
		40	Shale, purple, sandy.	

Form 9-330

Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

U. S. LAND OFFICE Window Rock, Ariz.
SERIAL NUMBER 14-20-603-211
LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company Shell Oil Company Address 101 S. Behrend, Farmington, N.M.

Lessor or Tract Tribal Lands Field Wildcat State Utah

Well No. Shadscale 1 Sec. 19 T. 41S R. 26E Meridian SLBM County San Juan

Location 660 ft. {N./S.} of S Line and 660 ft. {E./W.} of E Line of Sec. 19 Elevation 5139 DF
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed B W Shepard

Date November 5, 1957 Title Exploitation Engineer

The summary on this page is for the condition of the well at above date.

Commenced drilling August 16, 19 57 Finished drilling September 19, 19 57

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from ____ to ____ No. 4, from None to ____

No. 2, from ____ to ____ No. 5, from ____ to ____

No. 3, from ____ to ____ No. 6, from ____ to ____

IMPORTANT WATER SANDS

No. 1, from ____ to ____ No. 3, from None to ____

No. 2, from ____ to ____ No. 4, from ____ to ____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
8-5/8"	28	8	Nat'l	1003	Baker	-	-	-	Surface

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	1003	300 pozmo +200	Displacement	-	-

PLUGS AND ADAPTERS

Heaving plug—Material ____ Length None Depth set ____

FOLD MARK

Adapters—Material ---------- Size ----------

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
			None			

TOOLS USED

Rotary tools were used from 0 feet to 6171 feet, and from ---- feet to ---- feet

Cable tools were used from ---- feet to ---- feet, and from ---- feet to ---- feet

DATES

abandoned as a "dry hole"

September 21, 1957

Put to producing ----, 19----

The production for the first 24 hours was ---- barrels of fluid of which ----% was oil; ----% emulsion; ----% water; and ----% sediment.

Gravity, °Bé. ----

If gas well, cu. ft. per 24 hours ----

Gallons gasoline per 1,000 cu. ft. of gas ----

Rock pressure, lbs. per sq. in. ----

EMPLOYEES

O. Freeman, Driller

Great Western Drilling Company

S. W. Woods, Driller

J. W. Huet, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
1700	2886	1186	Chinle
2886	2925	39	Shinarump
2925	3020	95	Moenkopi
3020	4950	1930	Cutler
4950	6000	1050	Hermosa
6000			Paradox

[OVER]

16—43094-4

Form 9-331 b
(April 1952)

	19		
			X

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R359.4.
Approval expires 12-31-60.

Indian Agency Navajo

Allottee Tribal Lands

Lease No. 14-20-603-211

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	X
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

November 6, 19 57

Shadscale
Well No. #1 is located 660 ft. from {N/S} line and 660 ft. from {E/W} line of sec. 19

SE 19	41S	26E	SLBM
(¼ Sec. and Sec. No.)	(Twp.)	(Range)	(Meridian)

Wildcat	San Juan	Utah
(Field)	(County or Subdivision)	(State or Territory)

The elevation of the derrick floor above sea level is 5139 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Plugged as Follows:

35 sacks cement at 5900'
35 sacks cement at 5000'
35 sacks cement at 3050'
60 sacks cement at 1010'

Found top of top plug at 840'. Plugged with ten sack cement cap. Installed marker and abandoned in accordance with USGS Regulations.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Shell Oil Company

Address 101 South Behrend

Farmington, New Mexico

By B W Shepard
B. W. Shepard
Title Exploitation Engineer

U. S. GOVERNMENT PRINTING OFFICE 16—8437b-8